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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/769,741	01/30/2004	Ryan C. Lakin	5490-000250/CPB	6558
27572	7590 02/10/2006		EXAMINER	
HARNESS, DICKEY & PIERCE, P.L.C.			STOKES, CANDICE CAPRI	
P.O. BOX 828 BLOOMFIELD HILLS, MI 48303			ART UNIT	PAPER NUMBER
	,		3732	
			DATE MAN ED 02/10/200	_

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Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/769,741	LAKIN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Candice C. Stokes	3732				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the o	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of the provisions of 17 CFR 1.11 after SIX (6) (I.ONTHS from the realing date of this communication. If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timediately will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 30 Ja	anuary 2004.					
,=						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-43 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-32 and 34-43</u> is/are rejected.						
7) Claim(s) 33 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examine		ti la la Espaina				
10) The drawing(s) filed on 30 January 2004 is/are						
Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct						
11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	priority under 35 H.S.C. & 119/a	n)-(d) or (f)				
a) All b) Some * c) None of:	priority under 55 0.0.0. § 115(a)-(d) 61 (1).				
1. Certified copies of the priority document	s have been received.					
2. Certified copies of the priority document		ion No				
3. Copies of the certified copies of the prio	rity documents have been receiv	ed in this National Stage				
application from the International Burea						
* See the attached detailed Office action for a list	of the certified copies not receive	ed.				
Attachment(s)	-	(070 (10)				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 02/20/04.	5) Notice of Informal I 6) Other:	Patent Application (PTO-152)				

DETAILED ACTION

Specification

The abstract of the disclosure is objected to because on page 9, line 8 of paragraph [0046] the phrase "see Figure 6" is used. However, there is no Figure 6, only Figure 6A and 6B.

Furthermore, neither Figure 6A or 6B show acctabulum 28. Correction is required. See MPEP § 608.01(b).

Claim Objections

Claim 8 is objected to because of the following informalities: in line 2, "coupling grove" should be "coupling groove". Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 1) Claims 1-17,19-21,38 and 40-43 are rejected under 35 U.S.C. 102(b) as being anticipated by Cook et al (USPN 5,989,293). Cook et al disclose an acetabular prosthetic comprising: a bone engagement surface (outer portion of 14); a first inner integral generally spherical concave bearing surface 28; and a locking mechanism 29 configured to couple a second prosthetic implant 16 (see column 3, lines 2-6) having a second spherical bearing surface 39, the second spherical concave bearing surface 39 is configured to substantially surround a head of a femoral component (see column 3, lines 62-64). As to claims 2 and 9, the second prosthetic is

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selected from a group of a constraining ring, a slotted constraining ring, a bearing insert, and a bearing insert having an integral constraining ring and combinations thereof. Regarding claim 3, the first inner integral generally spherical concave bearing surface 28 is a polished metal (see column 3, line 10). As to claim 4, the acetabular prosthetic further comprises a peripheral surface 30, which defines said locking mechanism 34, and wherein said peripheral surface 30 defines at least one aperture (where reference 34 abuts) configured to accept a coupling fastener. With respect to claim 5, the second prosthetic implant 16 may be substituted with plastic ring 18. Inherently, plastic is a polymer bear surface. With regards to claims 6-7 and 9, the second prosthetic 16 is a bearing insert and also an integral constraining ring. As to claims 8 and 11, the bearing insert defines a bearing insert coupling groove 47 configured to accept a locking ring 34. Figure 2 shows that the constraining ring includes a hemi-spherical bearing surface. This anticipates claim 10. As to claim 11, said constraining ring defines a constraining ring groove 47 configured to accept a locking ring 34 to couple said constraining ring to said first prosthetic 14. Regarding claims 12 and 41, said constraining ring defines a locking flange 47, said locking flange 47 being configured to mate with said locking mechanism 29. As to claims 13 and 17, said constraining ring comprises a metal reinforcement ring 39. Cook et al also disclose said constraining ring comprising a restraining lip (where reference 39 is shown). This anticipates claim 14. Further to claim 15, the constraining ring 16 comprises a plurality of restraining lips (see Figure 2 which shows another lip below where reference 39 is shown). With regards to claim 16 and further regards to claim 41, the constraining ring 16 comprises an exterior surface which defines a reinforcement accepting groove 47, said reinforcement accepting groove 47 being configured to retain a reinforcement ring (30 of prosthetic 14). As to claims 17 and 38, the Art Unit: 3732

constraining ring 16 comprises an integrally molded reinforcement structure 39. Further to claims 19 and 40 the reinforcement structure 39 is a bearing insert. With regards to claims 20 and 42, the constraining ring comprises a coupling plate 38 having a plurality of elastically deformable coupling flanges 36 which are capable of coupling to the locking mechanism. Also to claim 21, the first and second bearing surfaces define a generally capsule shaped cavity (as best shown in Figure 6) capable of rotatably accepting a head of a femoral prosthetic and allowing translation of the head along a predetermined axis. With further respect to claim 41, the locking mechanism defines a flange member, which is capable of being positioned beneath a locking tab defined by an acetabular cup. As to claim 43, a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. Thus, the limitation of the constraining ring being "configured to be rotatable..." is met by the Cook et al reference.

2) Claims 1-17,19-23,25-32, and 34-36 are rejected under 35 U.S.C. 102(b) as being anticipated by Gray, III (USPN 5,800,555). As to claim 22, Gray discloses a kit of prosthetic components 10 comprising: an acetabular prosthetic 12 defining an integral spherical bearing surface 38 and a locking mechanism 16 configured to accept a second prosthetic device 14; at least one second prosthetic device 14 having a partially spherical bearing surface 72, the partially spherical bearing surface 72 is configured substantially surround a head 78 of a femoral component 80; and a femoral prosthetic 80. Regarding claim 23, said second prosthetic device 14 is selected from a group consisting of a constraining ring, a bearing insert, a bearing having

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an integral constraining ring, and combinations thereof. As to claim 25, said second prosthetic device 14 is a constraining ring defining a constraining ring bearing surface 72 and a constraining ring locking mechanism 16 configured to fixably couple said constraining ring to said acetabular prosthetic 12. With regards to claims 26 and 29-31, the second prosthetic device 14 is a polymer bearing insert (see column 4, lines 15-16) which defines an interior bearing surface 72 and a bearing insert locking mechanism 16, wherein said bearing insert locking mechanism 16 is configured to lock said polymer bearing insert to said acetabular prosthetic 12. As to claim 27, Gray also discloses a method for implanting a medical device comprising: implanting a first prosthetic 12 having an integral internal bearing surface 38 and a locking mechanism 16 which is configured to fixably accept a second prosthetic 14 having a second bearing surface 72 which substantially surrounds a head portion 78 of a femoral component 80, to a prepared joint; and inserting a femoral prosthetic 80 within the integral internal bearing surface 38 of the first prosthetic 12. As to claim 28, the method further comprising coupling a device second prosthetic device 14 to the locking mechanism 16 after the first prosthetic device 12 has been implanted in the prepared joint. Regarding claim 32, the method further comprising: removing the femoral prosthesis 80 from said first prosthetic 12, coupling said second prosthetic 14 to said first prosthetic 12, and inserting the femoral prosthesis 80 into said first and second prosthetics 12.14. As to claims 34-36, Gray also discloses, an acetabular prosthetic implant comprising: a first member having a bone engagement surface and an integral generally spherical first bearing surface, said first member defining a locking mechanism configured to be coupled to a second prosthetic member; and a second prosthetic member, coupled to said locking mechanism, said second member defining a second semi-spherical bearing surface (see column

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3, line 35), said first and second bearing surfaces defining a generally capsule shaped cavity, and wherein said generally capsule shaped cavity is configured to rotatably accept a head of a femoral prosthetic and allow the translation of the head along a predetermined axis.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1) Claims 18 and 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cook et al. Cook et al disclose the claimed invention except for the reinforcement structure of the constraining ring having a c-shaped cross-section. It would have been an obvious matter of design choice to make the ring having a c-shaped cross-section, since such a modification would have involved a mere change in the shape of a component. A change in shape is generally recognized as being within the level of ordinary skill in the art.
- 2) Claims 24 and 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gray, III. Gray discloses the claimed invention except for the kit comprising a plurality of femoral prosthetic components. It would have been obvious to one having ordinary skill in the art at the time the invention was made to include more than one femoral component within the kit, since it has been held that mere duplication of the essential working parts of a device involves only routine skill in the art. St. Regis Paper Co. v. Bemis Co., 193 USPQ 8.

As to claim 37, Gray discloses the claimed invention except for the generally cylindrical bearing surface having a length of about 1 to about 4mm. It would have been obvious to one

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having ordinary skill in the art at the time the invention was made to make the bearing surface any desired length suitable for its intended use, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. *In re Aller*, 105 USPQ 233.

Allowable Subject Matter

Claim 33 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Candice C. Stokes whose telephone number is (571) 272-4714. The examiner can normally be reached on 8:00am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Shaver can be reached on (571) 272-4720. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Candice C. Stokes

Cary E. O'Connor Primary Examina

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